



Cold Climate Housing Research Center

CCHRC

Hybrid Micro Energy Program

Award No. 01163

Quarterly Report: April 1, 2012 to June 30, 2012

Per the terms of the Hybrid Micro-Energy Program (HMEP) grant agreement, the three priority renewable energy systems to be evaluated are:

A small scale biomass combined heat and power (CHP) system that can convert wood into heat and power for use in small scale loads including residences, small community facilities, and potentially small communities and/or neighborhoods.

This portion of the grant was completed with the submission of the final report on March 29th.

A ground source heat pump project that includes solar thermal collection to recharge the ground

The school district has been working on the ground source heat pump system at Weller Elementary School. They have re-plumbed the solar panels so that they are working correctly to start adding heat to the ground. The panels are not running yet, nor is the heat pump. The school district is still working with the manufacturer to repair the main circuit board on the heat pump. In the meantime, the data collection system is functioning and poised to record information relating to the ground source heat pump and solar thermal collectors once operational.

A combined solar photovoltaic (PV) and wind system integrated into an energy efficient load design.

This portion of the grant was completed with the submission of the final report on March 29th.